AMERICAN UNIVERSITY of Beirut OBSERVATORY

MONTHLY BULLETIN

METEOROLOGICAL SECTION

OWEN GINGERICH, DIRECTOR

GIORGIO CONTINO, ASSOCIATE DIRECTOR

LIBRARY
APR 14 1958
WEATHER BUREAU

BEIRUT, LEBANON

Latitude: 33° 54' 22" N.

Longitude: $2^h\ 21^m\ 52^s.7$ E.

NOVEMBER 1957

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METEOROLOGICAL REGISTER

Date	Barometer reduced to O°C Sea level and 45° Latitude 700 mm. +...				Thermometer Degrees Centigrade					
	8:30	14:30	20:30	Mean	Max.	Min.	8:30	14:30	20:30	Mean
1	60.2	59.1	60.4	59.9	26.0	21.0	25.2	22.4	22.5	23.4
2	61.4	61.1	62.9	61.8	25.0	19.1	22.7	24.2	21.9	22.9
3	63.5	63.2	63.9	63.5	24.6	19.6	21.7	23.8	20.8	22.1
4	63.5	62.3	62.9	62.9	24.6	19.0	21.3	23.7	20.9	22.0
5	60.9	58.4	57.0	58.8	23.4	15.2	20.6	22.6	22.8	22.0
6	58.5	58.2	59.6	58.8	22.8	15.6	20.2	19.0	17.9	19.0
7	60.1	59.8	61.4	60.4	21.0	14.5	16.1	20.4	18.0	18.2
8	63.0	62.5	63.6	63.0	21.3	17.3	18.6	20.8	19.1	19.5
9	64.7	63.5	64.6	64.3	21.8	17.6	19.0	21.4	20.1	20.2
10	65.1	63.9	64.6	64.5	22.2	18.2	19.6	21.5	19.9	20.3
11	64.1	62.6	62.6	63.1	22.7	19.1	19.7	22.3	20.4	20.8
12	61.1	59.7	60.2	60.3	24.6	19.6	21.4	24.0	21.4	22.3
13	61.2	60.6	61.7	61.2	24.0	19.5	21.7	22.5	21.0	21.7
14	62.3	61.3	62.0	61.9	23.1	14.9	21.0	22.1	20.5	21.2
15	62.3	60.8	62.1	61.7	21.0	15.3	15.6	20.4	18.5	18.2
16	61.8	60.8	61.5	61.4	19.1	12.9	16.4	17.5	14.6	16.2
17	62.4	61.7	63.2	62.4	18.5	13.3	13.5	18.1	16.6	16.1
18	63.4	62.5	64.3	63.4	20.0	15.9	17.2	19.7	17.6	18.2
19	64.1	62.6	63.8	63.5	21.0	17.7	18.0	20.5	18.1	18.9
20	62.0	60.4	62.1	61.5	21.0	16.7	20.0	19.8	19.6	19.8
21	62.6	62.2	63.5	62.8	21.0	16.2	18.3	20.1	17.9	18.8
22	63.2	62.9	63.3	63.1	19.5	15.1	17.8	19.0	16.5	17.8
23	64.7	64.2	64.7	64.5	19.8	15.7	16.7	19.1	17.0	17.6
24	63.1	61.7	61.5	62.1	21.2	18.0	18.4	20.0	18.5	19.0
25	61.6	62.1	64.5	62.7	21.3	15.6	19.3	20.1	17.8	19.1
26	65.1	63.9	64.3	64.4	19.7	16.1	17.1	19.4	17.2	17.9
27	62.6	59.4	59.8	60.6	20.4	17.8	18.0	20.1	19.0	19.0
28	57.7	56.2	57.3	57.1	20.9	16.2	19.6	20.5	18.2	19.4
29	57.2	56.5	57.7	57.1	20.0	14.2	18.0	19.0	16.4	17.8
30	59.4	58.2	58.6	57.7	20.0	13.7	14.3	18.7	17.8	16.9
31										
	62.09	61.08	61.99	61.71	21.72	16.69	18.90	20.76	18.95	19.54

Barometer, range for month 765.1 mm. — 756.2 mm.
„ 71-yr. average for month 762.63 mm.
Thermometer, range for month 26.0°C — 12.9°C
„ 71-yr. average for month 19.85°C
Rain total for month 144.31 mm.
„ 71-yr average for month 132.61 mm.
„ Total, Sept. 1st. to end of month 190.95 mm.
„ 71-yr average. Sept. 1st. to end of month 188.82 mm.

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Date	Pressure of Water Vapor Millibars				Relative Humidity per cent.				sun.	Wind per day	Rain
	8:30	14:30	20:30	Mean	8:30	14:30	20:30	Mean	Hrs.	Kms.	m.m.
1	20.0	18.0	19.8	19.3	63	66	74	68	0.0	330	2.92
2	19.3	17.8	18.4	18.5	69	61	71	67	8.2	285	
3	20.8	20.3	18 1	19.7	81	67	75	74	7.0	278	3.00
4	16.5	20.9	18.9	18.8	65	70	75	70	9.4	229	
5	16.4	18.1	19.9	18.1	69	64	72	68	3.6	488	
6	14.7	17.8	18.6	17.0	63	81	91	78	1.8	343	41.60
7	17.2	16.4	15.4	16.3	93	67	76	79	4.6	259	9.06
8	15.5	17.0	15.5	16.0	73	72	72	72	10.0	225	6.28
9	15.5	16.0	17.4	16.3	72	63	75	70	9.2	335	
10	15.6	18.4	17.4	17.1	57	71	74	67	9.8	240	
11	11.9	15.7	13.7	13.8	54	58	56	56	9.4	172	
12	14.9	18.4	15.0	16.1	60	63	57	60	8.6	278	
13	17.2	19.2	19.5	18.6	66	71	78	72	4.3	156	
14	17.7	18.7	18.3	18.2	71	68	73	71	7.4	158	
15	16.6	15.9	14.9	15.8	94	64	71	76	3.0	393	30.75
16	16.2	15.3	13.0	14.8	90	77	73	80	3.1	449	39.20
17	16.6	14.3	13.1	14.7	94	70	70	78	2.3	304	10.10
18	13.2	13.5	13.3	13.3	67	60	67	65	9.7	314	
19	11.3	13.1	12.3	12.2	57	54	61	57	8.7	177	
20	13.6	15.8	14.6	14.7	60	68	65	64	2.4	595	
21	14.9	15.2	10.8	13.6	70	66	54	63	8.8	320	
22	11.3	12.9	13.1	12.4	57	60	70	62	9.2	333	
23	11.2	13.4	13.7	12.8	58	63	70	64	9.5	282	
24	12.8	13.6	11.8	12.7	62	58	58	59	7.4	209	
25	13.0	14.7	12.8	13.5	58	63	64	62	7.4	319	
26	13.2	15.1	14.2	14.2	68	66	73	69	9.0	179	
27	11.3	14.1	9.4	11.6	56	61	44	54	2.0	417	
28	10.4	14.2	13.3	12.6	47	59	64	57	2.8	257	
29	14.3	15.0	12.6	14.0	71	68	70	70	6.7	401	
30	14.4	13.4	12.8	13.5	88	62	64	71	2.7	549	1.40
31											
	14.92	16.07	15.05	15.34	70.1	65.4	68.6	67.6	6.27	309.13	4.81

Height of Barometer above sea level : **33.7 meters.**
Height of Thermometers above ground :
Dry and wet 1.25 m. ; Max. 1.30 m. ; Min. 1.50 m.
Hygrometric data from readings of wet and dry bulb thermometers exposed in a Stevenson screen, reduced according to M.O. 265.
Rim of Rain Gauge : above ground 0.66 m. ; above sea level 30.31 m.
Rainfall is read at 20:30 for the preceding 24 hours.
71 vear averages are for period, 1875-1945

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METEOROLOGICAL REGISTER

Date	Clouds clear—0 Overcast—10				beaufort, scale Direction and force of wind			Sea	Notes
	8:30	14:30	20:30	Mean	8:30	14:30	20:30		
1	10st-ni	10ni	10cu	10.0	3e	2e	2e	light	
2	8st	1cu-st	7st-ni	5.3	2sw	2sw	2sw	,,	Tr.p.m
3	6cu-ci	8ci-st	4ci	6.0	2sw	3sw	2w	,,	
4	5cu-st	7cu-st	4cu-st	5.3	2sw	2sw	2nw	,,	
5	10ci	10st-ni	10cu-st	10.0	2e	1ne	4ne	,,	G.p.m
6	10st	10st	10cu-st	10.0	4sw	3sw	3w	light	T.a.m
7	10cu-st	4cu-st	6cu-st	6.7	2s	2sw	2sw	,,	
8	1cu	4cu-st	1ci	2.0	2e	2n	2e	,,	
9	10ci	10ci	2ci	7.3	2e	2ne	3ne	,,	
0	1ci	3ci-st	3ci-st	2.3	2ne	3sw	2sw	,,	
1	0	6ci-st	1ci	2.3	2s	2ne	2se	light	
2	0	10ci	1ci	3.7	2ne	1ne	2ne	,,	
3	10ci-cu	10ci-st	7ci-st	9.0	2sw	2w	2sw	,,	
4	1cu	10ci-st	2ci	4.3	2s	2nw	2w	,,	
5	10ni	10cu-st	10cu-st	10.0	2e	2w	2nw	,,	
6	10st	9cu-st	5ci-st	8.0	2sw	2s	2sw	light	T.a.m.p.m
7	10ni	8cu-st	6cu-st	8.0	2se	2nw	3w	,,	
8	3cu-ci	1cu	6cu-st	3.3	2s	2n	2w	,,	Sannin snow copped
9	10ci	4ci	3ci	5.7	2s	2sw	2sw	,,	
20	10ci-st	10st	3ci	7.7	3ne	3ne	4nw	,,	
21	2cu-ci	2cu	3ci-st	2.3	2s	2w	3s	light	
22	1cu	3cu-st	2ci	2.0	2s	2nw	2w	,,	
23	0	0	2ci	0.7	2s	2w	2sw	,,	
24	8cu-ci	1ci	1ci	3.3	2se	2ne	2se	,,	
25	10ci-st	1cu	2ci-st	4.3	2sw	2n	2sw	,,	
26	1cu	2cu	2ci	1.7	2s	2n	2e	light	
27	10ci-st	9st	8st-ci	9.0	2sw	2ne	2e	,,	
28	8ci	10ci-st	8ci-st	8.7	2se	1ne	2se	,,	
29	7ci	9ci-cu	4ci	6.7	2sw	3w	2ne	,,	
30	10st	10st	10cu-ci	10.0	2sw	3sw	3sw	,,	
31									
	mean			6.86					

Abbreviations : G = gale ; H = haze ; M = mist ; T = thunderstorm ; D = dew
W = strong wind; Tr = trace of rain

Number of Daily Wind Observations

Time	N	NE	E	SE	S	SW	W	NW	Calm	Totals
8:30	0	3	5	3	9	10	0	0	0	30
14:30	4	8	1	0	1	8	5	3	0	30
20:30	0	4	4	3	1	9	6	3	0	30
Total	4	15	10	6	11	27	11	6	0	90

Number of days with rain 9, fog 0, thunderstorms 2, gale. 1
71 yr. av. number of days with rain during month 9.4
Time of reading minus 2 hours equals G.C.T